

CLAIMS

What is claimed is:

*1361
2805*

1. A light element, comprising an energy conduit; and a translucent surface so formed as to direct only radiation onto the energy conduit that impinges directly on the translucent surface, said translucent surface tracking the sun uniaxially or biaxially.
2. The light element of claim 1, wherein the translucent surface is an element selected from the group consisting of a Fresnel lens, a holographic lens and a refractive optical element.
3. The light element of claim 1, wherein the energy conduit includes a solar cell.
Sub A27
4. The light element of claim 1, wherein the energy conduit includes a fluid line.
5. The light element of claim 1, wherein the energy conduit includes a light guide.
6. The light element of claim 5, wherein the light guide is flexible.

7. The light element of claim 5, wherein the light guide has an entry end for receiving the portion of the radiation directed onto the energy conduit and tracking a movement of a focal plane, and an exit end which is stationary and aimed at the energy conduit.

Sub A3
8. The light element of claim 1, wherein the light element is located behind a translucent protective surface.

Sub A1
9. The light element of claim 1, wherein the energy conduit is disposed between the translucent surface and an additional translucent surface.

Sub A4
10. The light element of claim 1, including a plurality of said translucent surface for demarcating a living space.

11. A light element adapted for receiving radiation, comprising an energy conduit, and a translucent surface formed so as to direct only a portion of the radiation onto the energy conduit, with the portion directed onto the energy conduit striking the translucent surface in a direction perpendicular to the translucent surface.

12. The light element of claim 11, wherein the translucent surface is configured for tracking the sun through rotation about one axis or rotation about two axes

figures

13. A greenhouse, comprising:

- a plurality of frame elements forming a frame of the greenhouse,
- a plurality of pillows having at least one upper translucent surface facing a radiation source, each pillow supported in a respective frame element,
- a fluid element having a fluid circulating therethrough and a lens system arranged inside the pillow and formed so as to direct only a portion of the radiation that strikes the upper translucent surface in a direction perpendicular to the upper translucent surface onto the fluid element, and
- a thermodynamic machine extracting thermal energy from the fluid for producing at least electrical power.

14. The greenhouse of claim 13, and further comprising a heat reservoir for storing a portion of the thermal energy that is not extracted by the thermodynamic machine.

Add A5